Canon

Precision-Engineered
Genuine Canon
Video Lens

High Performance Video and Stills in the Palm of Your Hand

optura 100 MC

Go Digital
Go Canon

Mini DV

www.canondv.com

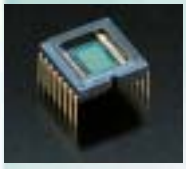
High quality digital video

Canon's OPTURA100MC combines stunning digital video, still images and full, rich stereo sound into a sleek design with artistic detailing that's comfortable to hold and small enough for virtually any pocket. Their versatility expands even further after shooting as they easily connect to a DV-ready personal computer for editing or to a TV for the pure joy of sharing experiences.

DV Format

Enter the world of DV and realize truly amazing picture and sound quality. Images reaching up to 500 line horizontal resolution reveal stunning detail and clarity. Clearly superior quality than even the best analog camcorders, by 20% at least, and free from annoying color noise. DV is the right format, right now!

Mini DV Digital Video Cassette



High Resolution CCD - 1.33 Megapixels

The OPTURA100MC features a 1/3.6 inch CCD capable of 1.33 megapixels. A sharp, megapixel compatible lens and optical image stabilization create high resolution still images. A still image is recorded on a memory card at an image size of 1280 x 960 pixels.

Mega Pixel CCD

10x Optical Zoom Lens* plus 200x Digital Zoom

Canon's optical zoom lens transforms distant subjects into dramatic close-ups with absolutely no loss in image quality. The digital zoom extends the magnification to an amazing 200x revealing details too distant to be seen with just the eye alone. The scope from wide angle to super telephoto is outstanding.

10x/200x
OPTICAL ZOOM / DIGITAL ZOOM

*8x when using a memory card

10x

200x Digital

Optical Image Stabilizer

OPTICAL IMAGE STABILIZER

Canon utilizes the finest method of image stabilization available: optical. While other manufacturers use an electronic or digital image stabilization system, Canon's lens design includes a dedicated optical element that preserves image quality so your videos always look smooth, steady and natural...whether shooting hand-held at full telephoto or from a moving vehicle. The optical method is also the perfect complement to the outstanding image quality of DV and offers superior shake reduction when light levels are low and while zooming.

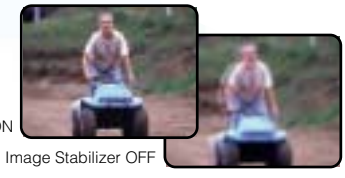


Image Stabilizer ON

Image Stabilizer OFF

Highly flexible

IEEE1394 DV Terminal

The OPTURA100 MC is equipped with a DV IN/OUT terminal that conforms to IEEE1394. It takes just a single digital cable to transfer or copy your videos in pure digital form to your DV compatible computer or another Canon DV camcorder.

Once you've transferred video images to your computer, you can edit your movies or send your movies over the Internet, or post them on your Web site. Also, print them out on a Canon color printer, transfer them back to your Canon camcorder and archive them on a Mini DV cassette, or create a dubbing master.

canon connects
plug and edit

learn more at www.icanstream.com

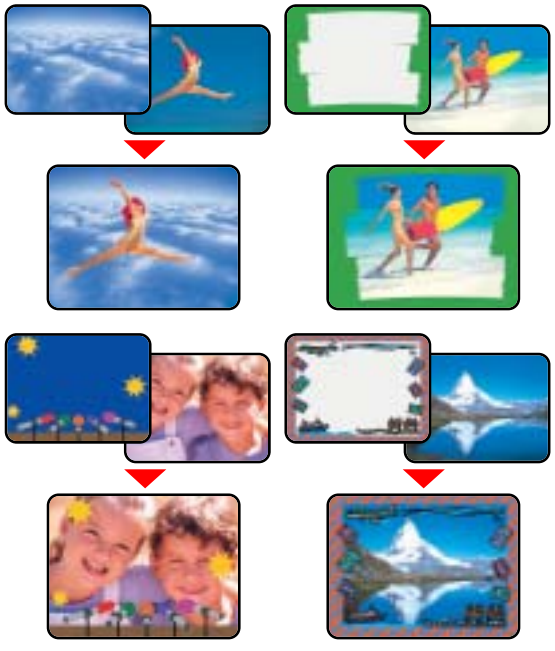
MultiMediaCard and SD Memory Card

The OPTURA100 MC expands video possibilities by using a MultiMediaCard or an SD (Secure Digital) Memory Card in addition to a Mini DV cassette. These ultra-small and ultra-light media record, store and manage still images, as well as allow easy transfer of still images to a PC**. Recorded image can be immediately checked by the press of a single button, allowing you to erase it, or set protection or mark an image for printing. Copy still images from a videocassette to a memory card, and vice versa. Produce effects not possible with just a cassette using one of the three types of Card Mix Effects. Choose one of the sample images provided on the supplied MultiMediaCard such as a picture frame or crashing waves and combine it with the currently recording image.

* An 8MB MultiMediaCard is supplied with the camcorder.
** With a commercially available PC card adapter or reader.

MultiMediaCard

SD™



Full featured

Built-in Flash

The built-in flash automatically rises up and fires according to the brightness of the surrounding area.
Use to illuminate your subjects when shooting still images of night scenes, indoors or in other dark places. There are 4 modes: Auto, Red-eye reduction Auto*, Flash on, Flash off.
* when only recording still images to a memory card.

Progressive Photo

The OPTURA100 MC employs the Progressive Photo function to record sharp, clear still images, even of moving subjects, onto a memory card. When you take a still image, the camcorder's iris works as a mechanical shutter, immediately closing to shut out superfluous image data. Every 1/30 of a second, the camcorder reads two fields of image data simultaneously, resulting in full-frame images virtually free of time-lag blur.

PROGRESSIVE
P H O T O

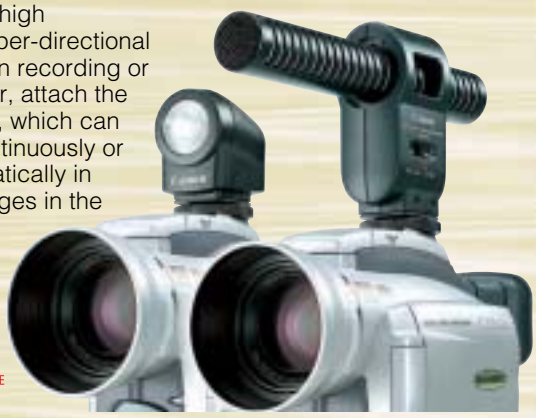
Digital Photo Mode

The OPTURA100 MC functions as a camcorder and a digital still camera; its like two cameras in one. Just press the photo button to capture more than 700 stunning still pictures on a single videocassette (in SP mode) or combine video and still pictures together with the added benefit of audio. The OPTURA100 MC can also capture approximately 60 fine resolution still pictures onto an 8MB MultiMediaCard.

Advanced Accessory Shoe

Simply slide on an accessory, and the shoe transmits power directly from the OPTURA100 MC. Choose to attach Canon's DM-50 Directional Stereo Microphone*, the world's first stereo shotgun mic with high sensitivity and super-directional pick up. Use when recording or dubbing audio. Or, attach the VL-3 Video Light*, which can either stay on continuously or turn on/off automatically in response to changes in the brightness of the shooting situation.
*Optional

ADVANCED ACCESSORY SHOE



Microphone Terminal

The OPTURA100 MC contains a microphone terminal, allowing any standard microphone to be attached.

Extended Recording Function

Extended Recording

In addition to the SP mode, the OPTURA100 MC 's Extended Recording Function lets you choose from three more recording modes: Long Play (LP), giving 1.5 times the standard recording time; and two more modes giving two and three times SP*. When image data is recorded to a tape in the 2x and 3x SP modes, it is compressed twice as much as in SP and LP modes. In the 3x SP mode, record for up to 4 hours on an 80 minute cassette tape.
*When recording in double or triple length recording mode, image quality will not be as high as SP or LP mode.

Program Auto Exposure

Ensures great video results even in challenging shooting conditions. Select the program that matches your scene and the camcorder adjusts internal controls for perfect video every time. Choose from Easy Recording, Auto, Sports, Portrait, Spotlight, Sand & Snow and Low Light.

Portrait

Sand & Snow

Sports

Program AE

Spotlight

Low Light

Manual Controls

In addition to being fully automatic, the camcorders offer manual control over focus, exposure, white balance and shutter speed.

Flexible LCD View Screen and Color Viewfinder

The 2.5" view screen makes it easier to compose sensational shots from any angle. It swivels and flips for maximum handling comfort and flexibility. It also tucks neatly away when bright shooting conditions make the eyecup viewfinder the preferred way to shoot. Rotate the viewfinder to an angle that allows you to view comfortablely.

Lithium Ion Power

Lithium ion battery packs can be recharged at any time, so you will always be prepared for peak shooting performance, and never caught without power unexpectedly. Cut down on charging time with the high-capacity BP-522 and BP-535 battery packs'* quick charging feature. When charged with the CR-560 charger kit*, the BP-522 and BP-535 give 60 minutes of recording** after only 15 minutes' charging.

* Optional
** Using the viewfinder

Multi-Angle Hand Grip

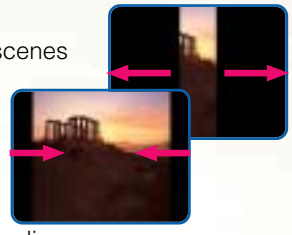
The grip belt gives a more stable feel. To eliminate often-awkward feel when holding vertical video camcorder, it is shaped in cylindrical form that gently tucks around your hand for natural and smooth operation.

Digital Effects

The camcorder includes a selection of digital effects for a more appealing look and greater imaging variety.

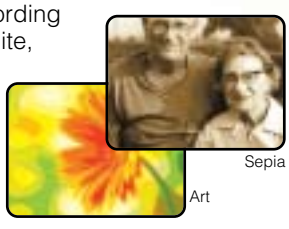
1 Faders

Use the various faders to start or end scenes with a fade to or from black. Choose between Fade Trigger, Vertical Wipe, Vertical Stripe, Horizontal Stripe, Checker and Window fades.



2 Effects

Give variety to your images during recording by adding Negative, Art, Black and White, Sepia or Mosaic effects.



3 Multi-image Screen

Divides your display screen into four, nine or sixteen pictures with the Image Capture feature. You can choose the speed at which the images are captured: Slow, Moderate, or Fast.

Analog Line-in

Send an analog video signal from your TV, VCR or camcorder into the OPTURA100 MC and record it onto DV. It's great for making copies or preserving precious originals.

AV Insert and Audio Dubbing

Use this feature to insert new scenes of video from your VCR or other camcorder on to a tape recorded in the SP mode. Using a recording made in the 12 bit audio mode you can also add stereo sound from another audio source or through the internal microphone or an external microphone.

PCM Digital Sound

PCM STEREO

The camcorder offers two digital audio modes to enhance the playback experience. The 16 bit mode produces the higher, CD equivalent, two-channel sound quality while the 12 bit mode records on two of four channels leaving two other channels free to dub extra sound at a later date.

- Microphone Terminal
- Built-in Speaker
- Photo Search/Date Search
- Time Code/Data Code
- Superb Playback Function
- S-Video Input/Output
- Self-Timer
- Confirming/Warning Beeps
- Zero Set Memory
- World Clock
- 16:9 Wide Screen TV Effect
- Remote Control
- Record Search & Review
- LANC Terminal***

Pictures simulated

Power Sources

Lithium Ion Battery Packs

Extra batteries for use with the camcorder.

Battery pack	Maximum recording time	
	using viewfinder	using LCD screen
BP-512 (supplied, single-capacity)	2 hr.	1 hr. 40 min.
BP-511 (optional, single-capacity)	2 hr.	1 hr. 40 min.
BP-522 (optional, double-capacity)	4 hr.	3 hr. 30 min.
BP-535 (optional, triple-capacity)	6 hr. 30 min.	5 hr. 40 min.

CR-560 Charge Adapter/ Car Battery Cable Kit

Connects to your car's cigarette lighter to power the camcorder or recharge BP-500 Series battery packs on the move. Can also draw power from an AC outlet when connected to the camcorder's CA-560 Compact Power Adapter.

Advanced Accessory Shoe

DM-50 Directional Stereo Microphone

Attaches to the shoe for cable-free operation. Picks up shotgun or shotgun + surrounding sound. Powered by the camcorder's power source. Wind shields included.

VL-3 Video Light

This 3W light attaches to the shoe for cable-free operation. Continuous on and auto on/off settings. Powered by the camcorder's power source.

Creative Shooting Accessories

WD-43 Wide-converter

Gives wide-angle coverage at 0.7x.

FS-43U Filter Set

Includes neutral density (ND 8) filter and MC protector.

TL-43 Tele-converter

Increase focal length by 1.7x.

ZR-1000 Zoom Remote Controller

Plugs into the camcorder's LANC terminal and allows you to control functions such as record start/stop, zoom and focus while the camcorder is mounted on a tripod, without touching the camcorder body itself.

Carrying Accessories

Genuine Leather

SC-A50 Soft Carrying Case

SC-1000 Soft Carrying Case

Availability differs from area to area.

Canon Digital Videocassettes

DVM-E60/DVM-E80 Digital Video Cassette

DVM-CL Digital Video Head Cleaning Cassette

Specifications

Power supply (rated): 7.4 V DC (Battery)
9.5 V DC (DC IN)
Power consumption:
Using viewfinder: 4.7 W,
Using LCD screen: 5.4 W
Television system: EIA standard (525 lines, 60 fields) NTSC color signal
Video recording system: 3 rotary heads, helical scanning system DV system (Consumer digital VCR SD/SDL system) Digital component recording.
Audio recording system: PCM digital sound: 16 bit (48kHz/2ch), 12 bit (32kHz/4ch). 2x SP and 3x SP: 12 bit only (32kHz/2ch)
Image sensor: 1/3.6" CCD (charge coupled device) approx. 1.33 million pixels (still image recorded onto a memory card: approx. 1.25 million/ movie and still image recorded to tape: approx. 690,000 effective pixels)
Tape format: Videocassettes bearing the (Mini DV) mark.
Tape speed: SP: 3/4 ips (18.81 mm/s); LP: 1/2 ips (12.56 mm/s). 2x SP 3/8 ips (9.41 mm/s); 3x SP: 1/4 ips (6.28 mm/s)
Maximum recording time (with an 80 min. cassette): SP: 80 min., LP: 120 min. 2x SP: 160 min., 3x SP: 240 min.
Fast forward/rewind time: 2 mins 20 sec. (with a 60 min. cassette)
Lens: F/1.6-1.8, 10x power zoom, 4.2-42.0 mm (8x zoom, 5.25-42.0mm in CARD CAMERA mode)
Focusing system: TTL autofocus, manual focusing possible
Minimum focusing distance: 3 ft 3 3/8 in. (1 m), 3/8 in (1 cm) on maximum wide angle
Maximum shutter speed: 1/8,000 (1/500 when using a memory card)
Minimum illumination: 3 lx using the Low Light program during tape recording
Recommended illumination: More than 100 lx
Filter diameter: 43 mm
Viewfinder: 0.55 inch, color LCD (approx. 113,000 pixels)
LCD screen: 2.5 in measured diagonally (approx. 200,000 pixels)
Microphone: Stereo electret condenser microphone
Flash: Built-in, Auto pop-up flash
Recording media: MultiMediaCard, SD Memory Card
Number of recording pixels: 1280 x 960 pixels, 640 x 480 pixels
Image format: Design rule for Camera Format system (DCF), Digital Print Order Format (DPOF) compliant (only images marked for printing)
File Format: JPEG (compression mode: Fine/Standard)
Estimated MultiMediaCard MMC-8M capacities (approx.)*:
1280 x 960: Fine 17 images, Standard 32 images
640 x 480: Fine 61 images, Standard 106 images
*The actual number you can record varies depending on the image. Remember that the sample images recorded on the supplied MultiMediaCard are included in the total number.
DV terminal: Special 4 pin connector (based on IEEE1394)
Video terminal: 1 Vp-p/75 ohms unbalanced
S-video terminal: 1 Vp-p (Y signal), 0.286 Vp-p (C signal)
Audio terminal: Input level: -10 dBV/40 kohms, unbalanced; Output level: -10 dBV, less than 3 kohms, unbalanced
Operating temperature range: 32 - 104° F (0 - 40° C)
Dimensions: 2 1/2 x 5 1/8 x 5 1/8 in (66 x 131 x 129 mm)
Weight: 1 lb 7 1/4 oz (660 g)

Memory Cards confirmed to operate with this camcorder (as of July 2001)
MultiMediaCard
SanDisk: 8MB, 16MB, 32MB, 64MB
SD Memory Card
Panasonic: 16MB, 32MB, 64MB
However, there is no warrant that the all memory cards work correctly. For more information, visit the following website.

THE CANON OPTURA100 MC KIT

- OPTURA100 MC
- BP-512 Battery Pack
- CA-560 Compact Power Adapter
- WL-D77 Wireless Controller
- S-150 S-video Cable
- STV-250N Stereo Video Cable
- MMC-8M MultiMediaCard

This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canon-brand accessories or products bearing the same mark.

www.canondv.com

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Weight and dimensions are approximate.
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Canon

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